



Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) Publication number:

**0 095 925
A3**

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 83303105.7

(22) Date of filing: 31.05.83

(51) Int. Cl.³: **C 07 D 403/12**, C 07 D 417/12,
A 01 N 47/36
// C07D231/18, C07D277/36,
C07D277/56, C07D233/68,
C07D275/02, C07D233/84

(30) Priority: 01.06.82 US 384043
25.04.83 US 486092
04.04.83 US 479363
30.03.83 US 478146

(43) Date of publication of application: 07.12.83
Bulletin 83/49

(84) Designated Contracting States: **AT BE CH DE FR GB IT
LI LU NL SE**

(88) Date of deferred publication of search
report: 28.11.84 Bulletin 84/48

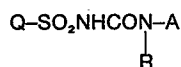
(71) Applicant: **E.I. DU PONT DE NEMOURS AND COMPANY**,
1007 Market Street, Wilmington Delaware 19898 (US)

(72) Inventor: **Hay, James Volney**, 36 Stature Drive, Newark
Delaware 19713 (US)
Inventor: **Shapiro, Rafael**, 2221 F Prior Road, Wilmington
Delaware 19809 (US)
Inventor: **Wolf, Anthony David**, 151 Kirkcaldy Drive,
Elkton Maryland 21921 (US)

(74) Representative: **Hildyard, Edward Martin et al, Frank B.
Dehn & Co. European Patent Attorneys Imperial
House 15-19 Kingsway, London WC2B 6UZ (GB)**

(54) **Herbicidal imidazole, pyrazole, thiazole and isothiazole derivatives.**

(57) Compounds of the formula



wherein R is H or CH₃;

Q is an optionally substituted imidazole, pyrazole,
thiazole or isothiazole moiety;

As is a heterocyclic group, e.g. pyrimidin-2-yl; and their
agriculturally suitable salts, exhibit herbicidal and plant
growth regulant effects.

The compounds may be formulated for use in conven-
tional manner. They may be made by various methods, e.g.
by the reaction of a sulfonyl isocyanate QSO₂NCO with an
aminoheterocycle HN(R)A.

EP 0 095 925 A3



European Patent
Office

EUROPEAN SEARCH REPORT

0095925
Application number

EP 83 30 3105

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. ³)
A	EP-A-0 039 239 (E.I. DU PONT DE NEMOURS AND CO.) * Claims *	1, 11	C 07 D 403/12 C 07 D 417/12 A 01 N 47/36 C 07 D 231/18 C 07 D 277/36 C 07 D 277/56 C 07 D 233/68 C 07 D 275/02 C 07 D 233/84
A	EP-A-0 030 142 (E.I. DU PONT DE NEMOURS AND CO.) * Claims *	1, 11	
E	EP-A-0 087 780 (NISSAN CHEMICAL INDUSTRIES LTD.) * Claims *	1, 2, 11	
E	EP-A-0 096 003 (CIBA-GEIGY AG) * Claims *	1-3, 11	
			TECHNICAL FIELDS SEARCHED (Int. Cl. ³)
			C 07 D 403/00 C 07 D 417/00 C 07 D 491/00
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 12-07-1984	Examiner VAN BIJLEN H.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	